

Synthetic Materials Technology and Its Benefits in the Development of Contemporary Sculpture Formation Skills

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Abstract

The development of bio-chemistry led to the extraction of many industrial wastes such as polymers, which are used as sculpture materials instead of natural substances. The different polymers include a variety of substances which are characterized by elasticity. They are able to change their form and keep their new form at the effect of heat and pressure. Some of these substances have heat elasticity, as they become flexible if heated, and freeze when cooled. They can be easily re-shaped. There are other types which change into insoluble and non-melting solid materials when heated, which cannot return to their original form. In that case, they could not be re-shaped. Polymers represent a great portion of these materials. This study would depend on making a research for the main properties of polymers which are commonly used in sculpture and duplication and then the possibility of adding the materials suitable for use which can be more durable for sculpture works and can keep up with the age of technology in which we live, especially the sculpture forms which can be made, and are characterized by elasticity and mechanical potential to bear

severe collision , high temperature and resistant to deformation and bending.

Problem of the Research: How can be benefit from the different materials in achieving the aesthetic concepts of a shaped sculptural work?

Keywords

Technology, Synthetic materials, Contemporary sculpture, Development skills.